

**Syllabus for
Bachelor of Science/Arts/Commerce in Ability
Enhancement Compulsory Course (AECC)
(Honours/Gen/Pass)
Under Choice Based Credit System**

**Academic Session:
w.e.f. 2020-2023**



*for
All Constituent/Affiliated Colleges Under*

Binod Bihari Mahto Koyalanchal University, Dhanbad

**Members of Board of Studies of CBCS Under- Graduate Syllabus as per Guidelines of the
Binod Bihari Mahto Koyalanchal University, Dhanbad.**

1. Chairman ---- Dr. Birendra Kumar
2. External expert members----Dr. B.K. Sinha (Principal)
3. Members-----
4. Invited members----
5.

ENGLISH

(Credit Theory 02), Theory-30 Lectures

Marks:10(MSE: ½ Hrs) +40 (ESE (ESE: 2 Hrs) =50.

Pass Marks: (MSE:04 + ESE: 16) =20

Instruction to Question Setter for

Mid Semester Examination (MSE): ½ Hrs

One semester internal Assessment (SIA) of 10 marks

End Semester Examination(ESE) : 2 Hrs

There will be two groups of questions. Five questions to be answered out of Nine Questions. Question No.1(A) will be MCQ of 1 mark each (four questions). Question No.1 (B) will be short answer type to be answered in about fifty words of 2 marks (2 Questions).

Group B will contain descriptive type of eight questions of eight marks each, out of which any four are to answer. Each question carry 08 marks. The question no. 9 will be of short notes type, each carrying four marks (4x2=8) in which only two should be answered out of four options.

OBJECTIVE: To equip students effectively to acquire skills in reading, writing, comprehension and communication, as also to use electronic media for English Communication.

Unit I: Communication – Definition, stages, barriers, types: verbal and non-verbal, Listening- Meaning, Nature and importance, Principles of Good Listening.

Unit II: Class-presentation (Oral for five minutes) on any of the above-mentioned topics: Descriptive writing, expansion of an idea.

Unit III: Writing skills –, notice writing, advertisement writing, précis writing, essay writing, letter writing (applications), Business letter formats (letters of enquiry, replies and complaints), resume writing, covering letter

Unit IV: Vocabulary building: One word substitution, synonyms and antonyms, idioms and phrases

Suggested Reading:

- Technical Communication*, M.H. Rizvi, Tata
- McGrawhill Effective Business*
- Communication*, Asha Kaul *Developing*
- Communication Skills*, Krishna Moha

ENVIRONMENTAL SCIENCE

Credit Theory 02), Theory-30 Lectures

Marks:10(MSE: ½ Hrs) +40 (ESE (ESE: 2 Hrs) =50.

Pass Marks: (MSE:04 + ESE: 16) =20

Instruction to Question Setter for

Mid Semester Examination (MSE): ½ Hrs

One semester internal Assessment (SIA) of 10 marks

End Semester Examination(ESE) : 2 Hrs

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Unit 1 : Introduction to environmental studies

Multidisciplinary nature of environmental studies;

Scope and importance; Concept of sustainability and sustainable development.

(2 lectures)

Unit 2 : Ecosystems

What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems :

Forest ecosystem

Grassland ecosystem

Desert ecosystem

Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(2 lectures)

Unit 3 : Natural Resources : Renewable and Non--renewable Resources

Land resources and land use change; Land degradation, soil erosion and desertification.

Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.

Water : Use and over--exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter--state).

Energy resources : Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

(5 lectures)

Unit 4 : Biodiversity and Conservation

Levels of biological diversity : genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots

India as a mega--biodiversity nation; Endangered and endemic species of India
Threats to biodiversity : Habitat loss, poaching of wildlife, man--wildlife conflicts, biological invasions; Conservation of biodiversity : In--situ and Ex--situ conservation of biodiversity
Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

(5 lectures)

Unit 5 : Environmental Pollution

Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution

Nuclear hazards and human health risks

Solid waste management : Control measures of urban and industrial waste.

Pollution case studies.

(5 lectures)

Unit 6 : Environmental Policies & Practices

Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture

Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).

Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

(4 lectures)

Unit 7 : Human Communities and the Environment

Human population growth: Impacts on environment, human health and welfare.

Resettlement and rehabilitation of project affected persons; case studies.

Disaster management : floods, earthquake, cyclones and landslides.

Environmental movements : Chipko, Silent valley, Bishnois of Rajasthan.

Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.

Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

(3 lectures)

Unit 8 : Field work

Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.

Visit to a local polluted site--Urban/Rural/Industrial/Agricultural.

Study of common plants, insects, birds and basic principles of identification.

Study of simple ecosystems--pond, river, Delhi Ridge, etc.

(Equal to 4 lectures)

uggested Readings:

- Raziuddin, M., Mishra P.K. 2014, *A Handbook of Environmental Studies*, Akanaksha Publications, Ranchi.
- Mukherjee, B. 2011: *Fundamentals of Environmental Biology*. Silverline Publications, Allahabad.
- Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
- **Gadgil, M., & Guha, R.1993. *This Fissured Land: An Ecological History of (2 Lectures)***
- *India*. Univ. of California Press. Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
- Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
- Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. *Science*, 339: 36--37.
- McCully, P. 1996. *Rivers no more: the environmental effects of dams*(pp. 29--64). Zed Books.
- McNeill, John R. 2000. *Something New Under the Sun: An Environmental History of the Twentieth Century*.
- Odum, E.P., Odum, H.T. & Andrews, J. 1971. *Fundamentals of Ecology*. Philadelphia: Saunders.
- Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. *Environmental and Pollution Science*. Academic Press.
- Rao, M.N. & Datta, A.K. 1987. *Waste Water Treatment*. Oxford and IBH Publishing Co. Pvt. Ltd.
- Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. *Environment*. 8th edition. John Wiley & Sons.
- Rosencranz, A., Divan, S., & Noble, M. L. 2001. *Environmental law and policy in India*. Tripathi 1992.
- Sengupta, R. 2003. *Ecology and economics: An approach to sustainable development*. OUP.
- Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi.
- Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. *Conservation Biology: Voices from the Tropics*. John Wiley & Sons.
- Thapar, V. 1998. *Land of the Tiger: A Natural History of the Indian Subcontinent*.
- Warren, C. E. 1971. *Biology and Water Pollution Control*. WB Saunders.
- Wilson, E. O. 2006. *The Creation: An appeal to save life on earth*. New York: Norton.
- World Commission on Environment and Development. 1987. *Our Common Future*. Oxford University

ALTERNATIVE ENGLISH(MB)

Credit Theory 01), Theory-15 Lectures

Marks:05(MSE: 1/4 Hrs) +20 (ESE : 1 Hrs) =25

Pass Marks: (MSE:02 + ESE: 08) =10

Instruction to Question Setter for

Mid Semester Examination (MSE): ¼ Hrs

One semester internal Assessment (SIA) of 05 marks

End Semester Examination(ESE) : 1 Hrs

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Unit I: Novel

1. The English Teacher (R.K. Narayan)

Unit II: Poetry

1. Stopping by words on a Snowy Evening (Robert Frost)
2. A slumber did My Sprit Seal (William Woodworth)
3. My Native Land (H.L.V. Derozio)
4. The Night of Scorpion (Nissim Ezekiel)
5. Break, Break, Break (A.L. Tennyson)
6. Starlit Night (G.M. Hopkins)

Unit III: Grammer

1. Common Errors
2. Fill up the blanks with prepositions.
3. One word substitution.

Suggested Reading:

- A String of Poems (Edited by: S.M.P.N. Singh Sashi and A.B.Sharan) The
- Winged Word (Edited by: David Green)

HINDI

(Credit Theory 02), Theory-30 Lectures

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Pass Marks: (MSE:04 + ESE: 16) =20

Instruction to Question Setter for

Mid Semester Examination (MSE): ½ Hrs

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End Semester Examination(ESE) : 2 Hrs

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हिन्दी व्याकरण एवं संप्रेषण

सैद्धान्तिक: 30 व्याख्यान

इकाई-1

हिन्दी व्याकरण और रचना,

संज्ञा, सर्वनाम, विशेषण, क्रिया, अव्यय, कारक, वचन, संधि,उपसर्ग, प्रत्यय तथा समास, लिंग निर्णय, पर्यायवाची शब्द, विलोम शब्द, अनेक शब्दों के लिए एक शब्द, शब्द शुद्धि, वाक्य शुद्धि, मुहावरे और लोकोक्तियां, फल्लवन एवं संश्लेषण।

इकाई -2

निबंध कला तथा समसामयिक एवं राष्ट्रीय विषयों पर निबंध लेखन

इकाई -3

संप्रेषण (संचार)

—संप्रेषण की अवधारण और महत्व, संप्रेषण के लिए आवश्यक शर्तें, संप्रेषण के प्रकार, संप्रेषण का माध्यम, संप्रेषण कला, संप्रेषण की तकनीक, वाचन कला, समाचार वाचन, साप्ताहिकार कला, रचनात्मक लेखन का लक्ष्य, रचनात्मक लेखन का आधार, भाव और विचारों की प्रस्तुति, वाक् कला की उपयोगिता।

4. रश्मिरेखी - रमणी सिद्धि दिग्गज

अनुशासित पुस्तकें :-

- | | |
|--|-----------------------------------|
| <input type="checkbox"/> वृहत् व्याकरण भास्कर | : डॉ० वचनदेव कुमार |
| <input type="checkbox"/> वृहत् निबंध भास्कर | : डॉ० वचनदेव कुमार |
| <input type="checkbox"/> आधुनिक हिन्दी व्याकरण और रचना | : डॉ० वासुदेव नन्दन प्रसाद |
| <input type="checkbox"/> रचना मानस | : प्रो० रामेश्वर नाथ शिवादी |
| <input type="checkbox"/> व्यवहारिक हिन्दी | : डॉ० जंग बहादुर पाण्डेय |
| <input type="checkbox"/> रचनात्मक लेखन | : डॉ० रमेश नौतम |
| <input type="checkbox"/> राजहंस हिन्दी निबंध | : प्रो० आर० एन्ड नौड |
| <input type="checkbox"/> सफल हिन्दी निबंध | : रलेश्वर |
| <input type="checkbox"/> निबंध सहचर | : डॉ० लक्ष्मण प्रसाद |
| <input type="checkbox"/> उपकार मुहावरे और लोकोक्तियाँ | : प्रो० राजेश्वर प्रसाद चतुर्वेदी |
| <input type="checkbox"/> कहानियों कहावतों की | : प्रताप अनम |
| <input type="checkbox"/> संप्रेषणपरक हिन्दी भाषा विज्ञान | : डॉ० वैश्या नारंग |
| <input type="checkbox"/> शैली विज्ञान | : डॉ० सुरेश कुमार |
| <input type="checkbox"/> शैली विज्ञान प्रतिमान और विश्लेषण | : डॉ० पांडेय शशिमूषण शीतायु |
| <input type="checkbox"/> शैली विज्ञान का इतिहास | : डॉ० पांडेय शशिमूषण शीतायु |

NON-HINDI

Credit Theory 01), Theory-15 Lectures

Marks:05(MSE: 1/4 Hrs) +20 (ESE : 1 Hrs) =25

Pass Marks: (MSE:02 + ESE: 08) =10

Instruction to Question Setter for

Mid Semester Examination (MSE): ¼ Hrs

One semester internal Assessment (SIA) of 05 marks

End Semester Examination(ESE) : 1 Hrs

There will be two groups of questions. Five questions to be answered out of Nine Questions. Question No.1(A) will be MCQ of 1/2 mark each (four questions). Question No.1 (B) will be short answer type to be answered in about twenty five words of 1 marks (2 Questions). Group B will contain descriptive type of eight questions of four marks each, out of which any four are to answer. Each question carry 04 marks. The question no. 9 will be of short note type, each carrying two marks (2x2=4) in which only two should be answered out of four options

हिन्दी व्याकरण एवं संप्रेषण -

सैद्धान्तिक: 16 व्याख्यान

इकाई-1

हिन्दी व्याकरण और रचना,

संज्ञा, सर्वनाम, विशेषण, क्रिया, अव्यय, कारक, वचन, संधि,उपसर्ग, प्रत्यय तथा समास, लिंग निर्णय, पर्यायवाची शब्द, विलोम शब्द, अनेक शब्दों के लिए एक शब्द, शब्द शुद्धि, वाक्य शुद्धि, मुहावरे और लोकोक्तियां, फल्लवन एवं संक्षेपण।

इकाई -2

संप्रेषण (संचार)

—संप्रेषण की अवधारणा और महत्व, संप्रेषण के लिए आवश्यक शर्तें, संप्रेषण के प्रकार, संप्रेषण का माध्यम, संप्रेषण कला, संप्रेषण की तकनीक, वाचन कला, समाचार वाचन, साप्ताहिकार कला, रचनात्मक लेखन का लक्ष्य, रचनात्मक लेखन का आधार, भाव और विचारों की प्रस्तुति, वाक् कला की उपयोगिता।

अनुसूचित पुस्तक :-

<input type="checkbox"/> बृहत् व्याकरण भास्कर	: डॉ० वचनदेव कुमार
<input type="checkbox"/> बृहत् निबंध भास्कर	: डॉ० वचनदेव कुमार
<input type="checkbox"/> आधुनिक हिन्दी व्याकरण और रचना	: डॉ० वासुदेव नन्दन प्रसाद
<input type="checkbox"/> रचना मानस	: प्रो० रामेश्वर नाथ शिवारी
<input type="checkbox"/> व्यवहारिक हिन्दी	: डॉ० जंग बहादुर पाण्डेय
<input type="checkbox"/> रचनात्मक लेखन	: डॉ० रमेश मोहन
<input type="checkbox"/> राजहंस हिन्दी निबंध	: प्रो० आर० एन० चौड
<input type="checkbox"/> सफल हिन्दी निबंध	: रत्नेश्वर
<input type="checkbox"/> निबंध सहकर	: डॉ० लक्ष्मण प्रसाद
<input type="checkbox"/> उपकार मुहावरे और लोकोक्तियाँ	: प्रो० राजेश्वर प्रसाद चतुर्वेदी
<input type="checkbox"/> कहानियों कथावस्तु की	: प्रताप अनाम
<input type="checkbox"/> संप्रेषणपरक हिन्दी भाषा शिक्षण	: डॉ० वैष्णव नारायण
<input type="checkbox"/> शैली विज्ञान	: डॉ० सुरेश कुमार
<input type="checkbox"/> शैली विज्ञान प्रतिमान और विश्लेषण	: डॉ० पांडेय रश्मिभूषण शीतलानु
<input type="checkbox"/> शैली विज्ञान का इतिहास	: डॉ० पांडेय रश्मिभूषण शीतलानु

And

Credit Theory 01), Theory-15 Lectures
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AECC - প্রথম সেমেস্টার

- ১। কর্ণ-কুন্তী-সংবাদ - রবীন্দ্রনাথ ঠাকুর ।
- ২। বিভূতিভূষণ মুখোপাধ্যায়ের ছোট গল্প -
(কুইন আন, ননীচেরা, বরযাত্রী, পীতু) ।
- ৩। বাংলা ব্যাকরণ:-
ক) বাগধারা খ) সমোচ্চারিত ভিন্নার্থক শব্দ গ) সন্ধি বিচ্ছেদ ঘ) পদ পরিবর্তন ।

URDU

Credit Theory 01), Theory-15 Lectures

Marks:05(MSE: 1/4 Hrs) +20 (ESE : 1 Hrs) =25

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سوال کے لیے ہدایات

مکمل جان

سوال کے جواب دینے کے لیے ہر سوال کے جواب میں 25 الفاظ کے اندر جواب دینا ہے۔ ہر سوال کے جواب میں 25 الفاظ کے اندر جواب دینا ہے۔ ہر سوال کے جواب میں 25 الفاظ کے اندر جواب دینا ہے۔

نوٹ: مجموعی سوال میں ہر سوال کے جواب میں 25 الفاظ کے اندر جواب دینا ہے۔

اردو (سہ ماہی)

سہ ماہی: 15 व्याख्यान ✓

اردو گرامر اور کچھ زین

UNIT- I

- ♦ واحد جمع
- ♦ تکرار تکرار
- ♦ حرکات و افعال
- ♦ ضرب المثال و تکرار

UNIT- II

- ♦ خطوط و نثر
- ♦ درخواست و نثر
- ♦ مضمون نگاری
- ♦ ترجمہ نگاری کا فن
- ♦ اردو سے ہندی ترجمہ نگاری سے اور وترتہ

معاون کتب:

ڈاکٹر سید الہ نقوی
ڈاکٹر صاحب سلفی مدنی
ڈاکٹر سائمن ڈی کورجیو

1. تہذیب
2. اردو گرامر اور کچھ زین
3. اردو قواعد



SANSKRIT(MB)

Credit Theory 01), Theory-15 Lectures

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Question No.1(A) will be MCQ of 1/2 mark each (four questions).Question No.1 (B) will be short answer type to be answered in about twenty five words of 1 marks (2 Questions).

Group B will contain descriptive type of eight questions of four marks each, out of which an four are to answer. Each question carry 04 marks. The question no. 9 will be of short note type, each carrying two marks (2x2=4) in which only two should be answered out of four options

संस्कृत भाषा शिक्षण (अनुवाद एवं रचना)

सैद्धान्तिक: 15 व्याख्यान

खण्ड (क) 1. शब्दरूप 2. धातुरूप

खण्ड (ख) 1. हिन्दी से संस्कृत में अनुवाद 2. संस्कृत से हिन्दी में अनुवाद 3. अनुच्छेद लेखन

अनुशंसित पुस्तकें :-

- आधुनिक संस्कृत व्याकरण और रचना - श्यामनन्दन शास्त्री - भारती भवन प्रकाशन, पटना
- आधुनिक संस्कृत अनुवाद - उमाकान्त शास्त्री - भारती भवन प्रकाशन, पटना
- बृहद - अनुवाद चन्द्रिका - चक्रधर नोटियाल 'इंस' शास्त्री - मोतीलाल बनारसीदास

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